

Summary of Preliminary Assessment on Structural, Fire and Electrical Safety

Name of the Factory	: Capri Garments Ltd.
Address of the Factory	: B-193, Bscic Industrial Esate, Tongi, Gazipur
Present Status of the Factory	: Under Operation
Structural Assessment Conducted by	: BUET
Date of Structural Inspection	: 25 th December 2013

BASIC INFORMATION:

The factory building is a seven storied (with a mezzanine floor) reinforced concrete building. A steel trussed shade is provided on a portion of the roof. The following information was noted:

i.	Building Usage Type	: Garment Factory.
ii.	Structural System	: Beam-Column Frame
iii.	Floor System	: Edge supported slab
iv.	Floor Area	: Approximately 5316 sft per floor
v.	No. of Stories	: 7 storied (with one mezzanine floor)
vi.	Construction Year	: 2002 - 2005
vii.	Foundation Type	: individual shallow foundation (as per drawing)
viii.	Design Drawings	: Available.
ix.	Soil Boring Report	: Available
x.	Construction Materials	: Reinforced Concrete and Steel
xi.	Generator	: In the ground floor

RECOMMENDATIONS FOR CORRECTIVE ACTION:

The recommendations of corrective action for both Structural and Fire & Electrical Safety comprises in Short Term, Mid Term and Long Term basis.

The recommendations for **Structural Safety** corrective action are:

Short Term (Immediate) : Two floors must be evacuated immediately. A minimum of 4 number 4 inches diameter cores are to be taken as soon as possible in column locations and tested with results used in the DEA report. Other than ground floor all areas of storage loading is to be limited to 40 psf (2 kN/m²) immediately. The factory owner has been instructed to prepare and submit a load plan of the factory building.

Mid Term (6-weeks) : A Detail Engineering Assessment (DEA) has to be completed.

Long Term (6-months) : Necessary remediation's after completion of DEA.

The recommendations for **Fire & Electrical Safety** corrective action are:

Name of the Factory	: Capri Garments Ltd.
Fire & Electrical assessment conducted by	: BUET
Date of Fire & Electrical Inspection	: 27 th December 2013

(A): Recommendations for Fire Safety corrective actions:

Immediate <i>(the factory should not continue to be occupied until these non-conformities have been rectified):</i>	N/A
Short Term <i>(Actions that must be incorporated into a Fire Safety Management Plan immediately (a week) and should be a regular activity)</i>	Remove all temporary obstructions from all escape routes, aisles and passageways. Remove all combustible materials from generator room. Ensure minimum width of corridors, passageways and aisles. Ensure easy access to portable extinguishers and monitor and maintain the same at required interval as per guidelines.
Mid Term <i>(The remedial works indicated must be</i>	Remove temporary structure from roof top. Produce proper drawing and plans to create horizontal and vertical fire-rated separation for stairways of appropriate

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<p><i>carried out within a period of 6 weeks)</i></p>	<p>specifications, grills, storage and assembly areas, offices, work areas. Also design to ensure proper separation of high risk areas (e.g., generator, boiler, transformer and substation rooms) as per guidelines.</p> <p>Remove all collapsible gates/sliding doors. Produce design drawings to demonstrate how stairways are to be made of adequate dimensions and appropriate specifications and to be converted into fire-rated enclosures equipped with fire-rated side swinging doors of required dimensions opening in the direction of travel at each floor.</p> <p>Produce design to install standard standpipe, hose and fire pump system.</p> <p>Provide design to install proper detection and alarm system.</p> <p>Install command station as per guidelines.</p>
<p>Long Term <i>(The remedial works indicated must be carried out within a period of 6 months)</i></p>	<p>Install horizontal and vertical fire-rated separation for stairways of appropriate specifications, grills, storage and assembly areas, offices, work areas.</p> <p>Ensure proper fire separation of high risk areas (e.g., generator, boiler, transformer and substation rooms) as per approved design.</p> <p>Install fire rated enclosure and doors of appropriate dimensions at exit to the stairs to prevent smoke and fire propagation as per approved design.</p> <p>Install standard standpipe, hose and fire pump system.</p> <p>Install proper detection and alarm system.</p> <p>Provide fire rated enclosure, install self closing fire rated door as per guidelines.</p>

(B): Recommendations for Electrical Safety corrective actions:

<p>Immediate <i>(the factory should not continue to be occupied until these non-conformities have been rectified):</i></p>	<p>N/A</p>
<p>Short Term <i>(Actions that must be incorporated into a Fire Safety Management Plan immediately (a week) and should be a regular activity)</i></p>	<p>Provide instructions for first aid and artificial respiration from exposure to electrical shock.</p> <p>Provide cover on the cable trench and rubber mat in front of the panel.</p> <p>Ensure well-dressed cabling with lugs and remove loose cabling.</p> <p>Ensure earthing of panel body & door with fitted condition.</p> <p>Provide distribution board as per guideline and put identification mark on distribution panel.</p> <p>Remove burn/broken/loose MCB/MCCB box/socket.</p>
<p>Mid Term <i>(The remedial works indicated must be carried out within a period of 6 weeks)</i></p>	<p>Provide separate service ducts for electrical cables.</p> <p>Provide new Emergency Lighting system.</p> <p>Provide appropriate Lightning Protection System as per guidelines.</p>
<p>Long Term <i>(The remedial works indicated must be carried out within a period of 6 months)</i></p>	<p>N/A</p>